

Nov-Dec 2006



magazine

EXO-FORCE

Go inside the
Sentai Fortress!

MINDSTORMS NXT tips

How to program
a better bot!

STAR WARS™

Secrets of Jabba's
Sail Barge!

PARENTS!

Special
Holiday
Offer!

See page 30 for details.

LEGO club

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LEGO Direct

LEGO EXO-FORCE



ATTENTION, EXO-FORCE! You can use the special weapons, armor, and other features of EXO-FORCE to make your army unstoppable. But don't let the EXO-FORCE soldiers fool you. They're not just a bunch of toys. They're real. And they're here to stay.



Magnetic Transport
Travel rapidly from one point in the fortress to another using these two-man magnetic transporters.



Repair Boy
Build machines like the Giant Strike are built and repaired here with the help of the robot crane arm and the latest technology. Although it's a lot of work, it's also a lot of fun. And it's a lot of work to make sure you can't be killed.



Central Command Station
Large enough to hold two EXO-FORCE mechs, this is the defense and communication center of the fortress. From the computer here, we can control the entire base and its defenses. It's also the headquarters for the EXO-FORCE soldiers. And it's also the place where the EXO-FORCE soldiers are stored. It's a lot of work, but it's also a lot of fun.



Regeneration Station
Pilots who are ill or injured are brought here to be treated by our best medical team. Our battle machines won't be the only things that need to be repaired.

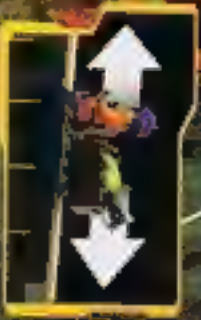


Destructive Disk Launcher
An effective weapon against the enemy, this launcher can sweep from side to side to track and destroy to enemy targets.

Visit
www.EXO-FORCE.com
For more insider information



Phase Laser Cannon
Manned by Tokeshi, this was specially designed to destroy the enemy's armor.



Magnetic Transport
The magnetic transporters can also be used to transport weapons and ammunition around the fortress.

BUILT FOR SPEED

the Ferrari F1 Racer 1:8



Introducing the **first-ever** 1:8 scale LEGO Ferrari F1 Racer. Bigger, faster, sleeker and with more authentic details than ever before, this super-realistic replica of the Scuderia Ferrari F1 race car is the ultimate model for any Ferrari or racing fan to build and display. ■

- Scuderia Ferrari was founded by Enzo Ferrari in 1929.
- Ferrari first competed in a Formula 1 race in 1950.
- The Ferrari logo is a rearing black stallion on a yellow field.
- Real dimensions: 4548 mm long, 1766 mm wide, 989 mm tall

Authentic labels and sponsor logos

8674 Ferrari F1 Racer 1:8



The LEGO Ferrari model has a working steering system to handle tight racetrack curves.



Remove the engine cover on the model to reveal moving pistons.



The model includes details like real working front and rear suspension.



Remove the spoiler and nose for even more detail.

Ferrari

OFFICIAL LICENSED PRODUCT



Model measures over 61cm long!

Ferrari, all associated logos and the distinctive design are trademarks of Ferrari S.p.A. The body of the Ferrari car is protected as Ferrari property under trade dress and/or design regulations.

LEGO

RACERS



LEGO

EXO-FORCE

THIS IS SENTAI FORTRESS. IT'S THE WELL-DEFENDED AND HEAVILY ARMED HOME BASE OF EXO-FORCE. NO ROBOT HAS EVER BREACHED ITS WALLS.

NOW, CALMLY, MIYABU, TELL ME AGAIN WHAT YOU SAW OUT THERE.

BUT ITS STRENGTH IS ABOUT TO BE CHALLENGED!

IN THE REGENERATION STATION.



IT WAS THE ROBOTS' NEW BATTLE MACHINE. IT'S HUGE, IT'S INCREDIBLY POWERFUL, AND IT'S ON ITS WAY HERE.

THE HUMAN DEFENDERS LEAP INTO ACTION!

"THE STRIKING VENOM IS COMING, AND IT'S COMING FAST!"

ROBOT STRIKE FORCE, CONVERGE ON SENTAI FORTRESS. THE HUMANS CANNOT STOP US THIS TIME.



ALL FILDS TO YOUR BATTLE MACHINES! MAN COMBAT STATIONS! YOU MUST PROTECT THE FORTRESS AT ALL COSTS!



THE SILENT STRIKE'S REPAIRS
ARE DONE. TIME TO POWER UP!



DRONE TROOPS,
DEPLOY! SENTAI
FORTRESS WILL FALL
BEFORE THE MIGHT OF
THE STRIKING VENOM!



NOT IF WE HAVE
ANYTHING TO SAY
ABOUT IT.
EXO-FORCE, GO!

THERE'S NO END TO
THESE GUYS!

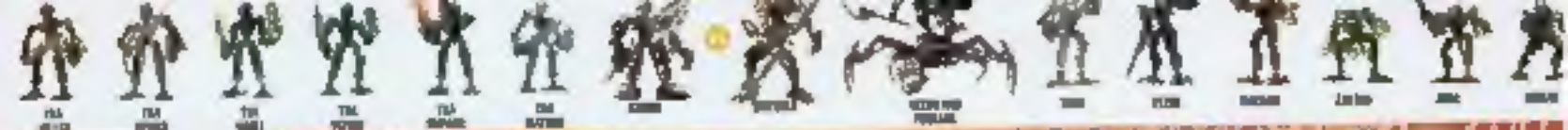
THEN WE'LL JUST
HAVE TO FIGHT HARDER.



FOOLISH HUMAN. HOW CAN
YOU HOPE TO STOP THE
STRIKING VENOM?

LOOKS LIKE WE'RE BOTH
ABOUT TO FIND OUT!

FOR MORE EXO-FORCE ACTION, VISIT
WWW.EXO-FORCE.COM



COLLECT THE WARRIORS OF
VOYA NUI

2006
BIONICLE

MAXIMUM POWER!

LEGO **RACERS**

The LEGO Power Racers are comin' at ya! These Fast and Furious speedsters are roaring with racing power, but that's not all – using their pull-back motors, each Power Racer can perform its own unique stunt! From wheelies to donuts to ramp-jumping to side-riding, there's no end to the high-speed thrills.



**8670
Jump
Master**



**8667
Action Wheelie**



Jump Master and Action Wheelie combine to make a twin-engine monster racer!



**8668
Fire Spinner 360**

Side Rider 55 and Fire Spinner 360 combine to make a two-engine mean machine!



**8668
Side Rider 55**

Get Ready for an All-NEW lineup of LEGO Racers.

CRASHING

Your way in 2007!

BIONICLE® HEROES HITS STORES!



New BIONICLE® Fans all around the world can Fulfill their wildest dreams of adventure with the BIONICLE HEROES video game, from the makers of the smash hit LEGO® Star Wars™: The Video Game series.

"This game is all about having lots of fun and interacting with the different characters in the BIONICLE universe," said game producer Luke Valentine. "We've created a really exciting and challenging gameplay experience that will appeal not only to BIONICLE fans, but also to gamers everywhere."

The game features 25 beautifully designed levels set across 6 huge interactive elemental zones: Water, Air, Fire, Ice, Earth and Stone. Conquer these zones one by one to unlock 19 boss characters who are out to stop you.

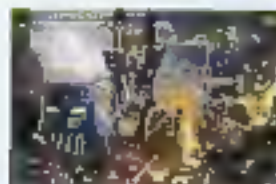
BIONICLE HEROES will be in stores this month for PlayStation 2, Nintendo Game Cube, PC, Nintendo DS and GameBoy Advance.





BEHIND THE BRICKS:

Secrets of the Piraka Stronghold



AN INTERVIEW WITH
MODEL DESIGNER
TORBEN SKOV



"Designing a model like Piraka Stronghold isn't as easy as you might think, because it's much more than just putting pieces together. How would a stronghold built by Piraka look?"

Ever wonder what goes into designing a BIONICLE battleset like the Piraka Stronghold? So did we – so we went to the expert, LEGO Model Designer Torben Skov.

Torben works in Billund, Denmark, global headquarters of The LEGO Company, and has been designing models for 20 years. He's been on the BIONICLE team for two years, after spending time designing models for LEGO City, Life on Mars, Sports, and Knights' Kingdom, among others.

What does it take to be a LEGO set designer? Patience, skill with and knowledge of LEGO elements, and most of all, creativity and imagination. Most set designers have backgrounds in art, architecture, or design.

Designing a model like Piraka Stronghold isn't as easy as you might think, because it's much more than just putting pieces together. First, the designer must know all about the universe he is working in – in this case, BIONICLE. What fits and what doesn't? How would a stronghold built by Piraka look?

After that's decided, the real work begins. "Elements must be developed," says Torben. "Models must be digitalized and elements counted before you can build for the first time." It's important to know how many new pieces a model will require, because that affects how much extra work will go into producing it and what it will cost to make.

Once the pieces have been decided on and approved, the model starts getting tested. Some of these are product safety tests, others are groups of fans. A typical BIONICLE fan test group consists of fans from ages 8-12, some who own a lot of BIONICLE sets and some who own only a few. They are asked to give their opinion of every aspect of the model and

whether or not it is something they would want to own. Based on what comes out of these meetings, designers may need to go back and make changes. If the focus tests come back positive, then work can start on any decorations needed for the pieces.

"Right now, I'm working on next year's BIONICLE sets, but they are secret, of course."

— Torben Skov

After that is done, building instructions are made and artists get to work designing the packaging you see in the store. As for Torben, he is on to his next big design project. So what is he working on now?

"Right now, I'm working on next year's BIONICLE sets," he says. "But they are, of course, secret."

Working on super-secret BIONICLE models ... sounds like a fun job, doesn't it? ■



THE NEW BIONICLE
UNIVERSE

Discover the secrets of the BIONICLE universe, from the Matoran to the Great Spirit, and everything in between. This is the ultimate guide to the BIONICLE universe, featuring exclusive photos and behind-the-scenes information.



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Non-Stop

降世神通

AVATAR

THE LAST AIRBENDER

QUEST For the AIR TEMPLE!

Aang and his friends are in a race against Prince Zuko to reach the Air Temple at the mountain's top! Challenge a friend, choose your side, and get ready to adventure in the world of the Avatar.

"Quest For the Air Temple" is a game for 2 players.

1. Each player needs a LEGO Aang the Avatar or Prince Zuko of the Fire Nation.
2. Use LEGO Avatar minifigures or any other LEGO piece to play. You will also need a 2x4 or 2x6 sized LEGO brick to roll.
3. Roll the LEGO brick to see who goes first. Whoever has the 1 space number face down is the first to play. If it's a tie, both players roll again.
4. Take turns rolling the brick and moving across the board. If you land on a space with instructions for your side (blue for Aang, red for Prince Zuko), do what it says. If you land on a blank space or a space for the other side, your turn is over.
5. Whoever climbs the mountain and reaches the Air Temple first is the winner!

Rolling the LEGO brick:

- If the brick lands with studs facing up, move 1 space.
- If the brick lands with studs facing down, move 2 spaces.
- If the brick lands on its side, move 3 spaces.



The Avatar warns you of a dangerous trap! Move back 1 space or stay and plan again!

Move the winged bunnies across the board! Jump forward 3 spaces!

I know Zuko! Lead the way and give yourself a little turn!

Katara freezes you with her water bending! Go back 4 spaces, while you melt your way back!

A soldier brings news of the Avatar! Location: Move forward 3 spaces to prepare your move!

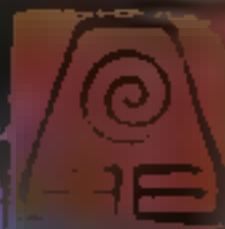
#3329 FIRE NATION SHIP

Your adventure begins here! Aang and his friends have just escaped from Prince Zuko's Fire Nation Ship. Can they reach the Air Temple on top of the mountain, or will Prince Zuko get there first to capture them?



#1928 AIR TEN 1966

You've reached the top! The secrets of the Air Temple are yours. Now try switching sides and playing again!



Use the power of the wind to blow the windmill and the windmill will blow the windmill.

Use the power of the wind to blow the windmill and the windmill will blow the windmill.

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Bricks in Motion!

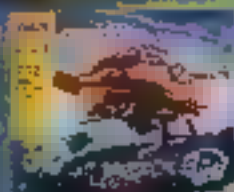
LEGO CREATOR

You may not believe your eyes, but these LEGO models really moved! These magnificent masterpieces were ready for you to build, play with, and share with your family and friends. Can you believe a helicopter with a motor that makes a bumper car move in any direction when it hits an obstacle or a spider that twines its legs?

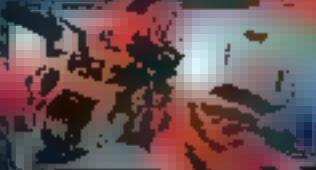
What can YOU create with Motion Power, and how will you make it move?

Motion Power Fun Facts!

The first functional helicopter was built in 1900. It flew less than two feet above the ground! Spiders can detect their prey by sensing vibrations on the ground or in their webs!



LEGO's first motor vehicle constructed in 1894, which only move forward!



Crawling Spider



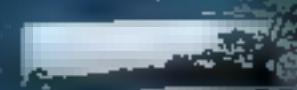
Bumper Car



Are high-speed sports cars more your style? Take a spin with the Roving Roadster convertible, with seats that recline and doors that open. But watch out – this roadster's so fast, you might get stopped for speeding while you're putting it together! When you're done, you can rebuild it into a drag racer or a jeep, or create an all-new vehicle of your very own!



Jeep



Dragster

LEGO Creator Building Challenge!

Wouldn't it be great if there was a vehicle that could move on land, in the air, and under the sea? Here's your chance to build one! Construct a vehicle designed to work on the ground, in the sky and in the water and you could be one of five winners of a LEGO set of your choice worth up to \$100!

To Enter:

1. Build a model of a vehicle that works on land, in the sea, and in the air using pieces from your LEGO collection.
2. Write an essay (no more than 100 words) with the name of your vehicle and how it works.
3. Take a color photo of your model and send it or a high quality computer printout on photo paper (no Polaroids, please), along with your essay, to the address below. Please include your name, age, address and phone number.

Send Entries to:
LEGO Creator
Building Challenge
PO Box 1625
Enfield, CT 06083

For complete rules, visit

All entries must be received by January 3, 2007!

deep in the desert of Tatooine, the crime lord Jabba the Hutt is about to throw Luke Skywalker and Han Solo to the ravenous Sarlacc monster below. Their friends Lando Calrissian and Princess Leia have a plan to help them escape... but they'll need R2-D2 to do it! Can you help them find where the little droid is hiding on this page?

Secrets of Jabba's SAIL BARGE

SAIL BARGE FAST FILE

VEHICLE TYPE

Ubrikkian luxury sail barge

OWNER

Jabba the Hutt

ARMAMENT

Turret-mounted laser cannon

POWERED BY

Antigravity repulsion lift, wind

FEATURES

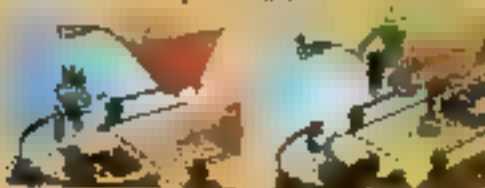
Positionable sails, prison cell, fully-stocked kitchen, throne chamber

SECURITY PROVIDED BY

Boba Fett

ESCORT VEHICLE

Prisoner transport skiff



Launch Boba Fett into action!



www.LEGO.com/STARWARS

LEGO **STAR WARS**

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All rights reserved.



SENTAI FORTRESS

Headquarters of EXO-FORCE, Sentai Fortress is heavily fortified against a robot attack. Wall-mounted lasers and destroyer disk launchers keep the enemy at bay, while Hikaru pilots the stealthy and powerful Silent Strike into battle against Maca One and the Iron Drones. The final fight has begun between humans and robots — who will win? ●



COOL CREATIONS

BIONICLE



LEGO MINDSTORMS NXT



NXT Milk Mixer Bot 2
Nicholas Lajoie, age



Bot-choven
Jason Kolbush, age 11

Building Challenge WINNERS

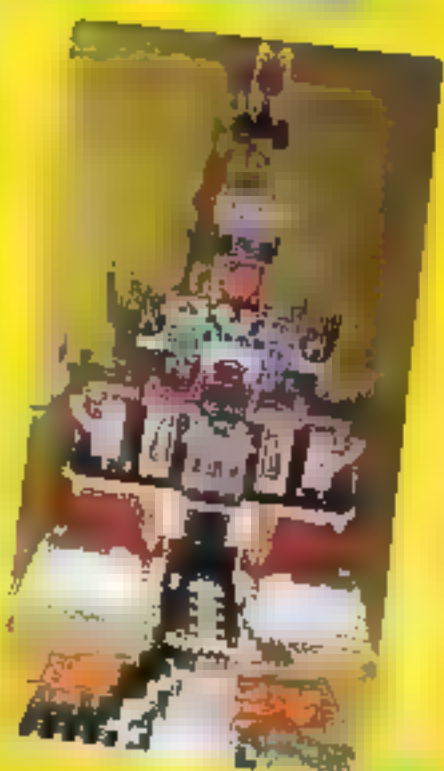


LEGO Pinball Machine
Brian Hague, age 12

Building Challenge WINNERS

#BIONICLE

www.BIONICLE.com



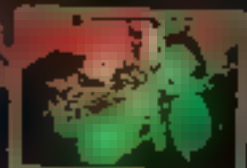
Cool Creations
P.O. Box 1308
Enfield, CT 06083-1308

Remember to include your name, address and the name of your model.
No Polaroids please! Pictures will not be returned, so remember to take
an extra photo for yourself!

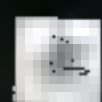
SpongeBob
SQUAREPANTS

CREATURE
FROM THE
KRUSTY KRAAB

Bikin' Bottom will never
be the same!



Available for your favorite
video game systems October 2005



PlayStation 2

NEW! XBOX 360

Wii

GAMEBOY ADVANCE

NINTENDO DS

RP-E
RATED EVERYONE



PLAYSTATION 2
WII
XBOX 360
GAMEBOY ADVANCE
NINTENDO DS

Visit www.sony.com for updated rating information.
A rating of RP-E indicates that the content is generally suitable for all ages. However, some material may be inappropriate for children under 13. Parents are encouraged to monitor their children's play habits and to discuss the material with them. For more information on video game ratings, visit www.esrb.org.

DISASTER.
THE INMATES
HAVE TAKEN
OVER GOTHAM
CITY'S ARKHAM
ASYLUM!

ARKHAM SINISTER!

THE SCARECROW

HEE HEE! IF BATMAN
COMES, WE'LL SHOW HIM A
FRIGHTFULLY GOOD TIME!

THE RIDDLE

RIDDLE ME THIS: WHEN IS A
CELL DOOR NOT A CELL DOOR?

WHEN IT'S OPEN!

POISON IVY

THE DARK KNIGHT HAS
BEEN A WEED IN MY
GARDEN LONG ENOUGH!

A MYSTERIOUS SIGNAL FLASHES IN THE NIGHT, SETTING OFF THE
ONLY HERO WHO CAN DEFEAT THIS VILAINOUS TEAM!

LEGO

BATMAN

THE BATMAN

WELCOME TO ARKHAM
ASYLUM, BATMAN - WE'RE
SURE YOU'LL LIKE IT HERE

NEVER, YOU'LL
NEVER LEAVE!

CRASH!
CRASH!
CRASH!

CRASH!

CAN BATMAN
DEFEAT HIS
ARCH-ENEMIES AND
SAVE GOTHAM,
GUY? YOU
KNOW!

www.LEGO.com/Batman



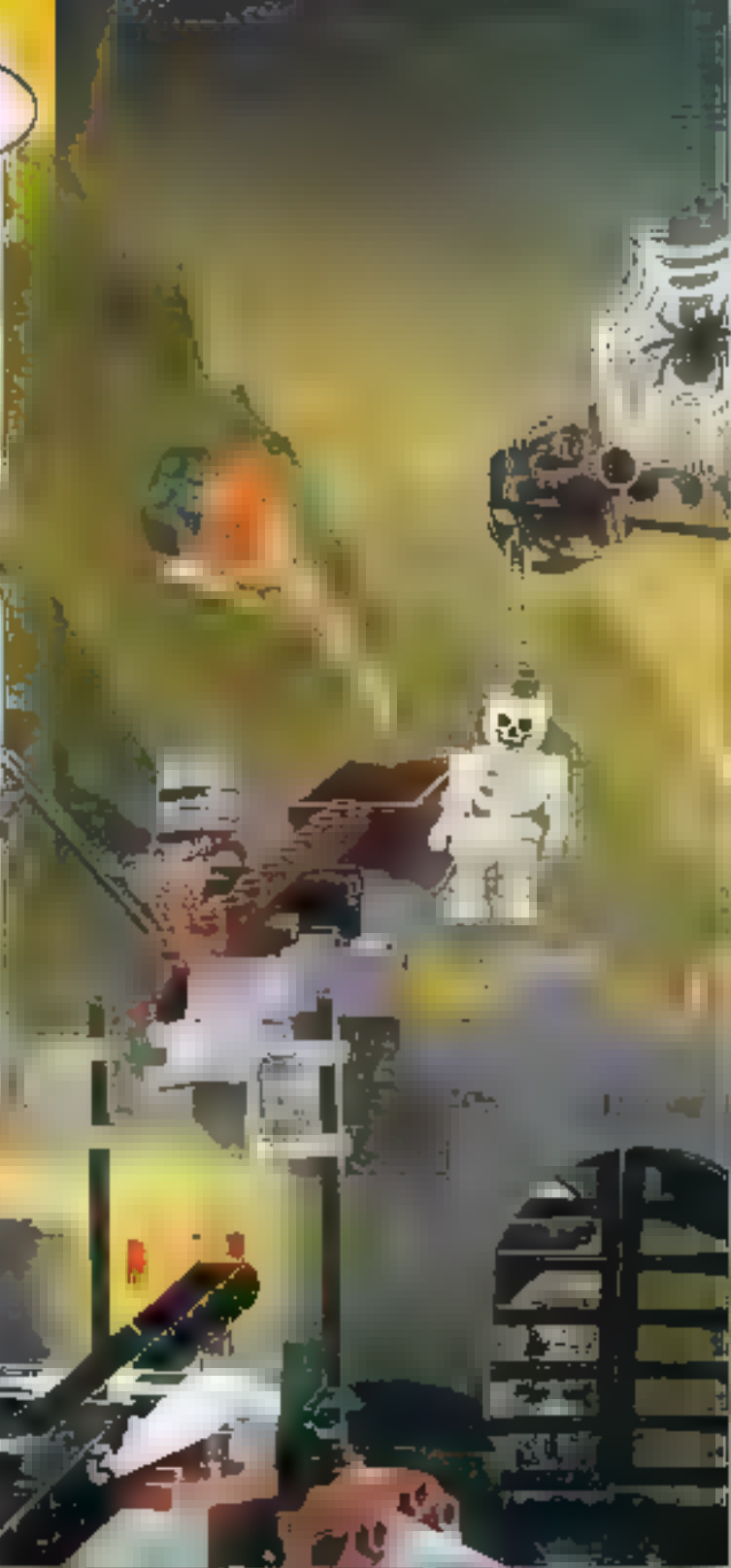
BATTLE FOR THE MISTLANDS TOWER!

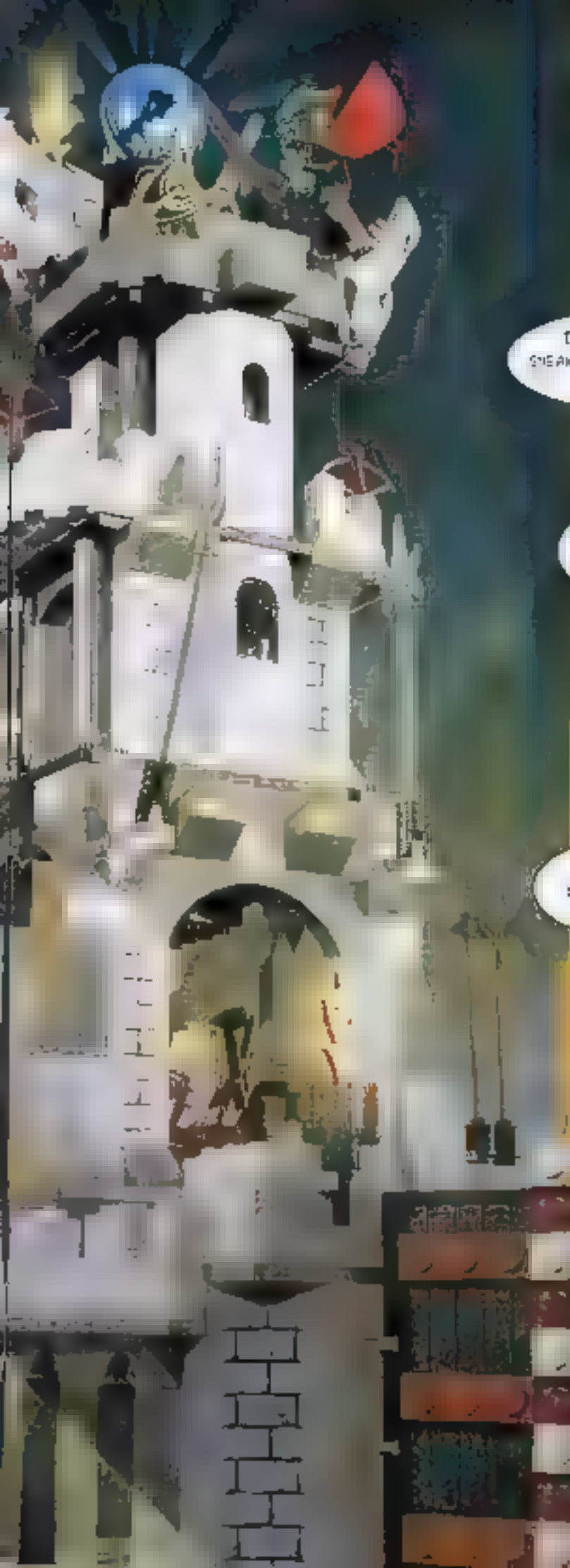
Hidden deep in the heart of the Mistlands of Morcia, the Mistlands Tower holds a magical prize for any knight brave enough to climb to the top. Who will be the first to capture its power?



KNIGHTS Kingdom

DEFEND THE TOWER. SAVE THE KINGDOM.





DUEL FOR THE TOWER!

Hidden deep in the heart of the Mistlands of Morcia, the Mistlands Tower holds a magical prize for any knight brave enough to climb to the top. Who will be the first to capture its power?

1095 LORD JOYKA

Symbol: The Hawk
Weapon: Runesword
Allies: Sir Agric, Sir Kenev and the Knights of Morcia
Skills: Noble, honest and wise, has amazing speed and skill in battle
Action: 2-handed sword and shield combo attack
Battle vehicle: Fireball-launching Axe-Ram

YOU'LL NEVER WIN, VLADEN. THE KNIGHTS OF MORCIA WILL STOP YOU!

NOT A CHANCE, KING JOYKA. THE MAGIC OF THE TOWER WILL BE MINE!

8702 LORD VLADEN

Symbol: The Scorpion
Weapon: Sword of Dark Sorcery
Allies: Karzon, Dracus and the Rogue Knight Horde
Skills: Treacherous and cunning, uses magic sword to cheat and win
Action: Singular side-slash sneak attack
Battle vehicle: Wall-smashing Crossbow Catapult

LEGO **Knights Kingdom**

DEFEND THE TOWER SAVE THE KINGDOM

King Joyka must build his battle vehicle to defend the Mistlands Tower! Help him by finding the pieces of his Fireball-Launching Axe-Ram and destroying the pieces of Lord Vladen's evil Crossbow Catapult. Find all the right parts and you'll discover a secret message from the Book of Morcia!



MINDSTORMS On the Street Interview with Host

LEE WEST



How long have you been skateboarding?

Lee West: I have been skating for about 16 years and doing skateboard tricks for 12 years. I was very inspired as a kid by movies such as "Back to the Future" and "Greasing the Cube". When I saw how those characters were the freedom, the rebellion and the extreme stuff, I just thought that it was cool and I was a perfect fit in my life.

Did you play with LEGO bricks as a kid?

Lee West: I was a LEGO kid. I used to get a whole bunch of random pieces from the kids in the neighborhood. I never had a complete set. Any time I got in trouble, got grounded or got bored, I made stuff with LEGO. In my sophomore year, we were told to make a CD image of a childhood experience. I built a representation of my bedroom when I was two years old. I used two of the LEGO men to show me and my best friend.

What inspires you to be creative?

Lee West: I am inspired by seeking new ways to experience and show reality. My Dad is an artist, so as a little kid, I was always inspired to be like him.

What's cool about MINDSTORMS NXT?

Lee West: The intelligence behind it, but also that it's done with a sense of humor like the Soda-Bot. I don't like to take myself too seriously. It's pretty cool to be able to build robots with LEGO. Finally I can get some help around the house. :D

What would you want to build and program a MINDSTORMS robot to do for you?

Lee West: Go get more phone numbers from girls for me!

What was Soda-Bot's secret to getting that girl's phone number?

Lee West: By saying as little as possible but using his body language (his little laugh, for example).

Any final words for the MINDSTORMS NXT builders out there?

Lee West: Push your level of creativity [with LEGO]. Instead of using the instructions all the time, tweak it to the way that you like it. You will end up surprising yourself! ■

Meet Lee West! As a music artist, skateboarder, illustrator and more, he's the perfect host for the brand-new MINDSTORMS NXT video segments. You can view them (and see what he's talking about with Soda-Bot and the phone numbers) at www.MINDSTORMS.com.

Lee West is from Oakland, California. He is a member of the Purple People Project and The Big Lebowski.

Tell us a little about yourself, Lee!
Lee West is an illustration major and a student at California College of Arts and Crafts, and a professional skateboarder and hip-hop artist.

ADVERTISEMENT

One of the places where you can find
LEGO® MINDSTORMS NXT is at Amazon.com.

SPECIAL OFFER!

Visit www.amazon.com/LEGO for a special offer for LEGO Club members. The first 500 people who buy a MINDSTORMS NXT set will receive \$25 worth of LEGO products and a FREE 8-pack of AA Energizer® e² Lithium® Batteries to power your robot. Offer valid through November 30th.



Why Energizer® e² Lithium® Batteries?
You can "Create" for up to 3.5 hours longer* with your LEGO® MINDSTORMS® NXT!

*vs. Energizer® Max with continuous play. AA only. Results vary by design and programming.

Energizer, Energizer Bunny Design and other marks are trademarks of Energizer.

**LEGO mindstorms
nxt**

Energizer® e² Lithium®
is the recommended
battery for
MINDSTORMS NXT.

amazon.com
and you're done.™



577 PIECES

ONE AMAZING ROBOTICS KIT!

The MINDSTORMS NXT robotics kit includes building and programming instructions for 4 unique and amazing robots, each designed to do something new and different for you. But the possibilities don't end there!

Each of the 577 elements in a MINDSTORMS NXT set is a flexible and functional component for designing and creating robots of your very own. Some are classic LEGO TECHNIC pieces to help you build a strong and sturdy framework for your robot's body. Some are gears, levers and wheels to make your robot leap into action at your command. And some are special parts that serve very special functions...or maybe just make your robot creation look cool. ■

I've got a good feeling about this.

Make your robot feel and react with the MINDSTORMS NXT Touch Sensor! The sensor can detect and respond to different kinds of contact when its tip is bumped, pressed or released. Use it to program your robot to pick up objects, change direction when it runs into an obstacle, activate at the push of a button, and much more!

BEAMS



Who says robot construction can't be stylish? These beams not only lock tight to form a solid body for your bot, but also match the color of the NXT computer at its core!

GEARS



Want to make your robot's components move faster, slower, or in a different direction? The NXT set has a different gear for every occasion. Plug some in and watch your creation spring to life!

TRIANGLES



It may look like one, but this is no clothes hanger. With its distinct shape and plenty of attachment points, this piece will help you design your robots in a whole new way.

POINTS



Whether you use them as teeth, spikes, or just decoration, these wild orange points are sure to give your creation's look some real bite.

EXTENDERS



Want to build a 4-armed alien monster? Here's a handy set of pieces to make one part of your robot pull on another. Snap one end into the top arm and one into the bottom to make them move together!

WHEELS



A bumpy road is no obstacle when you build these heavy-duty tires into your robot. With their powerful rubber treads, they'll take your creation just about anywhere you want it to go.

BLADES



Will it be a claw? A sword? A mechanical eyebrow? From fingers that grip to spider-bot legs, these pieces will help to define your robot's winning personality.

BALLS



Program your robot to fetch the red ball or dunk the blue one through a hoop. With enough practice, you might even be able to teach it to juggle!

LEGO® MINDSTORMS™ NXT available at these and other fine stores. For a full listing of retailers and locations please go to www.MINDSTORMS.com

TOYS R US

COMPUSA
We got it. We got it.

TARGET
Unbeatable. Unbelievable.

Fry's
ELECTRONICS

BEST BUY

F.A.O. SCHWARZ

MINDSTORMS NXT IS THE

BIG ROBOT ON CAMPUS

We gave MINDSTORMS NXT robotics sets to some of the biggest, brightest and best in the business and asked them to show us their stuff — custom-designing their own unique robots that do what they want them to do.

"We wanted our robot to embody Reebok through sport," says Keiji Ando, member of BROC Team Reebok, "so we wanted it to dunk and kick and stuff."

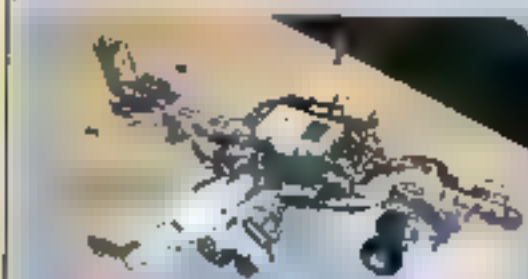
Keiji worked with LEGO and robot fans from different design departments at Reebok to create the mighty Reebot.

So what kind of 'bot is Reebot? "It's a reverse-dunking, long-range-sharp-shooting, penalty-goal-destroying pressure-proof assassin!" Keiji proclaims.

And how will it fare against the other BROC team creations? "Reebot will dunk all over them. It'll dunk on them 9 times before they hit the ground." ■



Check out Reebot and all the other BROC robots at www.MINDSTORMS.com!



Southwest's NXT Airplane Robot



The Southwest Airlines team spread out to get inspired.



National Instruments' Mr. Himball

Energizer's robotic Bunny keeps going and going!

Energizer
by Energizer



—What's NXT?

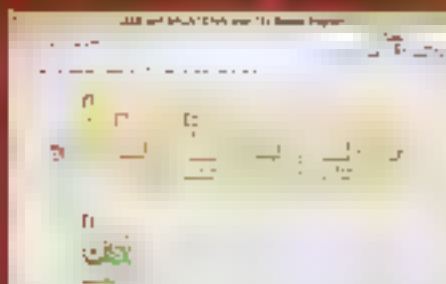
PROGRAMMING YOUR 'BOT!

Programming your MINDSTORMS robots to do what you want is a piece of cyber-cake for the NXT Intelligent brick. Just load up the user-friendly program on your computer, check out a few easy tutorials, and you'll have a fully operational 'bot in no time flat!

BE STILL MY BEATING HEART

4 EASY STEPS

Here's a great first-time program to try out. Just follow these simple steps to bring Alpha Rex to life with a digital heartbeat!



- STEP 1** Create a new program to tell the NXT that this program should keep repeating until you want it to stop.
- STEP 2** Use the On/Off block to tell the NXT that it should display a heart image on its screen.
- STEP 3** Next, add a Wait block to tell the NXT to pause between heartbeats.
- STEP 4** There's a bit more! Now you can add Motor blocks and more to make your robot do different things while its virtual heart beats for a bit to see. Download your programming programs to your computer using a cable.



THE STING OF VICTORY!

Want to make a program with a big, more bite? This sequence will make Spike the Scorpion-Bot walk toward a target, strike with his tail while playing a sound, retract his tail again, and retreat back to the starting point!

- STEP 1** Create a new program to tell your robot to crawl forward a set distance using two of the MINDSTORMS NXT servo motors.
- STEP 2** A third motor controls the tail. Adding this to your program here tells your scorpion to strike when he's finished moving.
- STEP 3** Use the Touch Sensor block to tell the tail to stop when it contacts a target!
- STEP 4** And placing the Sound Controller block here lets you set the NXT to play a sound when Spike strikes.
- STEP 5** These two Motor blocks tell the tail and legs to reverse after a successful strike. Now Spike's ready to attack again.

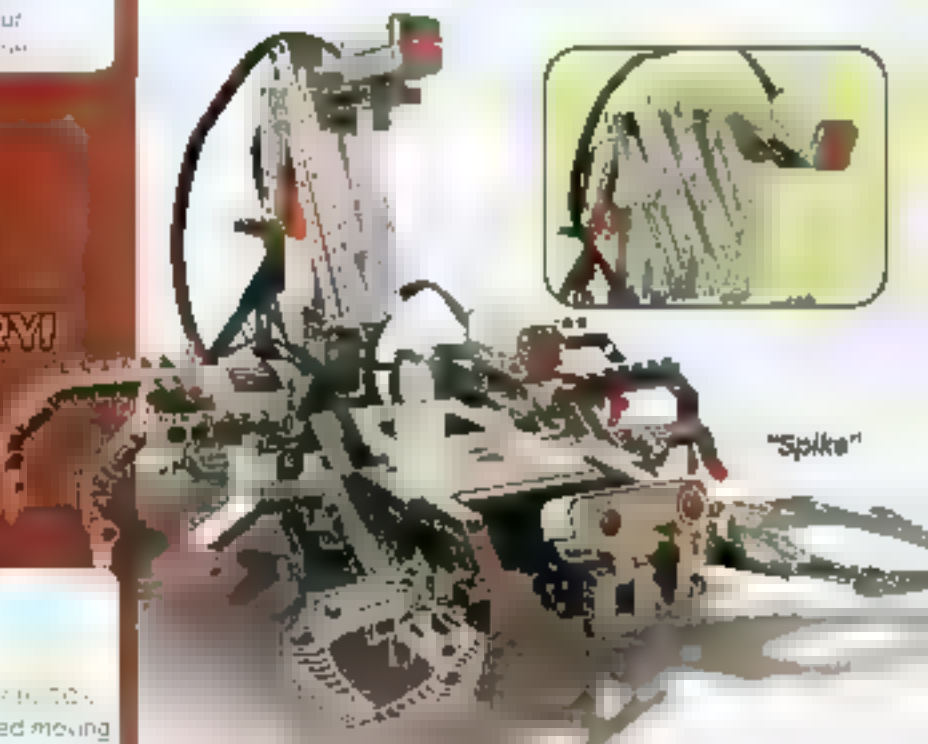
LIGHT SENSOR

In brightest day
and darkest night

The MINDSTORMS NXT Light Sensor helps your robot to see. It can tell the difference between light and dark and distinguish one color from another by their light intensity. Use it to make a burglar alarm robot that activates when the light is turned on, a pathfinding robot that follows a line on the floor, or even a robot that can sort objects by color!



"Alpha Rex"



"Spike"

Now that you know how to program your MINDSTORMS NXT robot, try to think of ways to customize these programs to do different things. Pretty soon, you'll be building all-new programs to make your robot creations do whatever you want!

Find these programs and more in *Meet the Robots!* at MINDSTORMS.com

ROBOTS

THROUGH TIME AND SPACE!

Robots have been around a lot longer than you may think. As far back as classical Greek mythology, we've had legends of obedient automations made from stone, clay, metal... even dragon's teeth!

Check out our timeline of robots through the modern age and see how it all leads up to the amazing technology of today's robotic creations!

400 B.C.

The ancient Greek philosopher and mathematician Archytas is said to have created a mechanical bird that flew through the air powered by steam. But did it really happen, or is it just a story?

1738

Jacques de Vaucanson, inventor of automations, designs and constructs a mechanical duck with over 400 moving parts. It can flap its wings, eat, drink, and even digest grain. And yes, it can make the by-product of digestion, too...

1920

The word "robot" is introduced to the world by the Czech writer Karel Čapek. His play "R.U.R." (Rossum's Universal Robots), is about artificial people created to serve humanity. But like so many robots in later science fiction, they eventually rebel and take over. Of course, we're pretty sure today's robots won't do that, right?

1927

Fritz Lang's silent movie "Metropolis" is released. "Maria," the film's robot villain, is the first of her kind to be seen on the silver screen.

1938

Science fiction literature explodes with robots. Newspaper stands are full of pulp magazines with stories about robot servants, robot friends, robot explorers, robot warriors...in fact, robot pretty much everything!

1940s

Now robots are really on the march! B-movies everywhere star the marvelous mechanoids. Whether they act as friendly assistants or world-conquering monsters, you can hardly turn around without seeing another robot on a "Coming Soon!" movie poster.

1977

A little film called *Star Wars* hits movie theaters around the world, featuring a pair of heroic droids named R2-D2[™] and C-3PO[™]. Robots will never be the same again.

1970s - 1990s

You say you like toy robots? The '80s and '90s had toy robots! Robots that walked, robots that talked, robots that turned into cars and jets and dinosaurs...but none that you could really program and control like a real robot. Then came...

1998

The LEGO Company creates the Robotics Invention System 1.0, also known as MINDSTORMS. Thanks to its innovative RCX brick, builders can finally build and program robots of their very own. But it didn't stop there...

2005

MINDSTORMS NXT finally arrives! With new hi-tech sensors, a new construction parts, and the incredible NXT "intelligent brick," MINDSTORMS NXT revolutionizes personal robot building. Finally, kids (and grown-ups) around the world can make robots that do well, pretty much anything they want them to!



1738

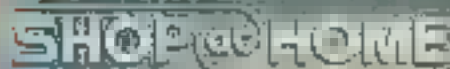
1920

1950s - 60s

1977

1980s

2005



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